OIPE
FEB 16 2006
PATENT & TRADEMARK OFFICE

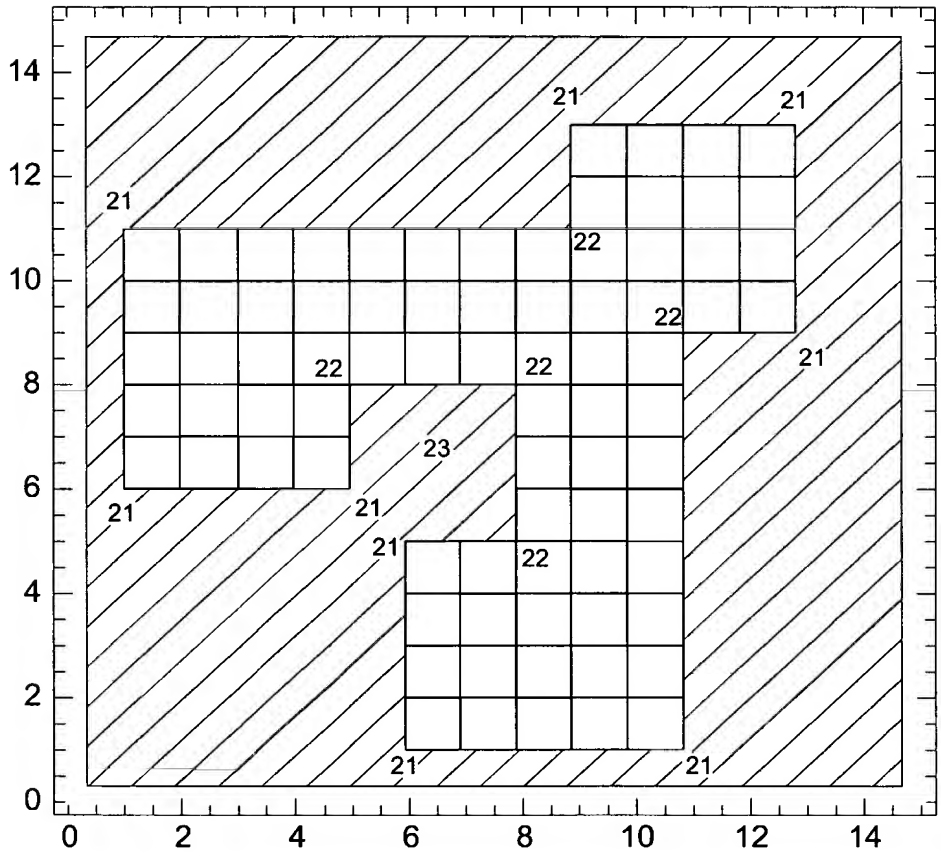

FIG. 1

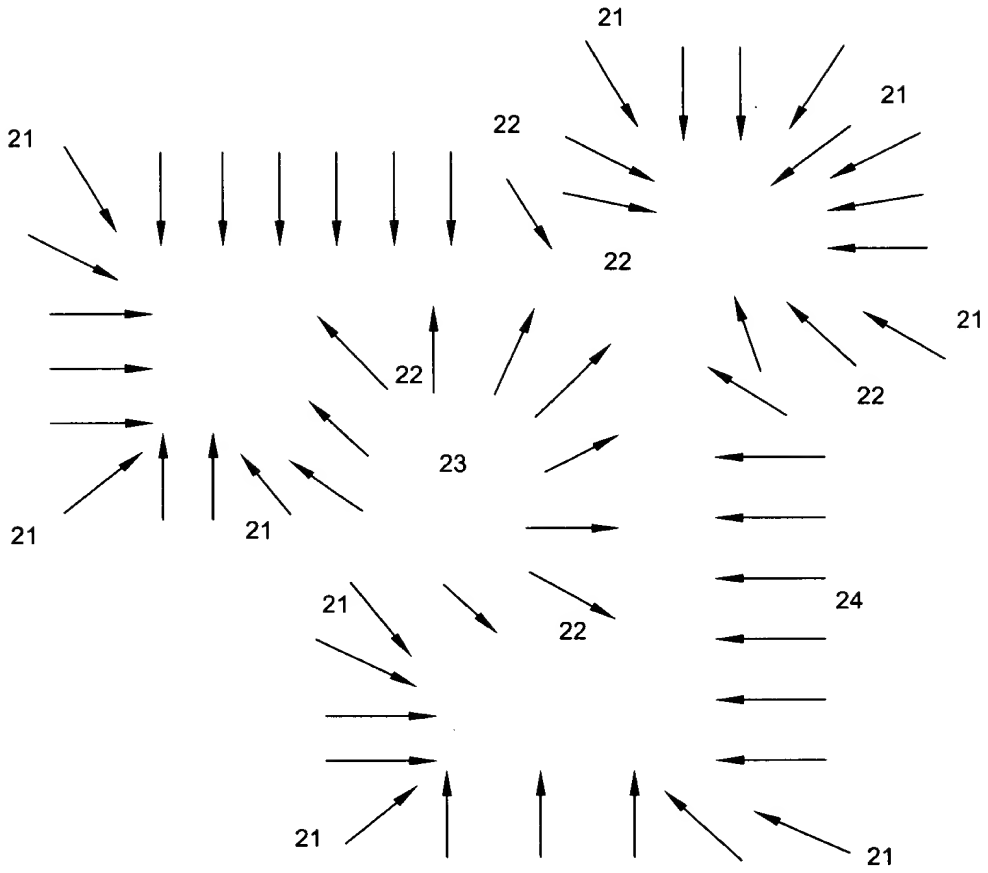

FIG. 2

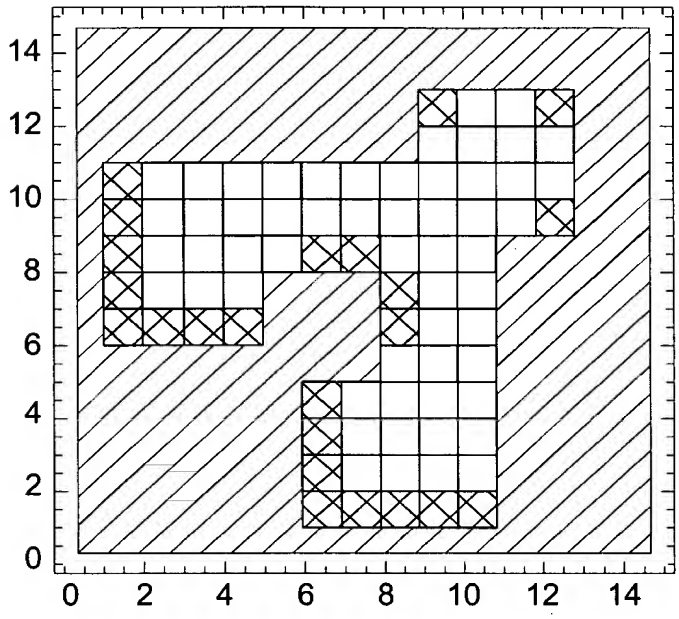

FIG. 3A

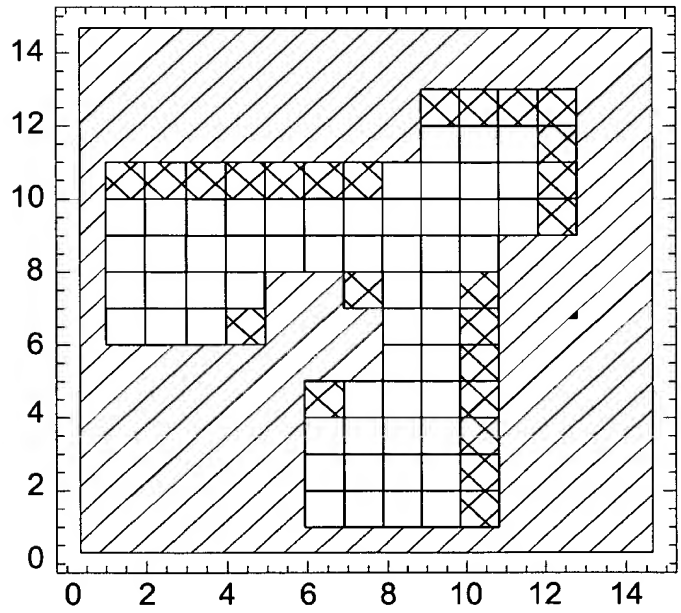

FIG. 3B

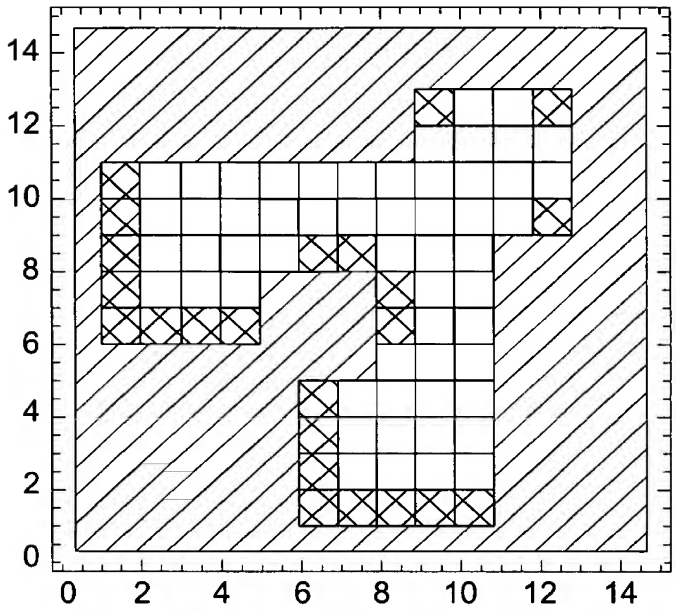

FIG. 3C

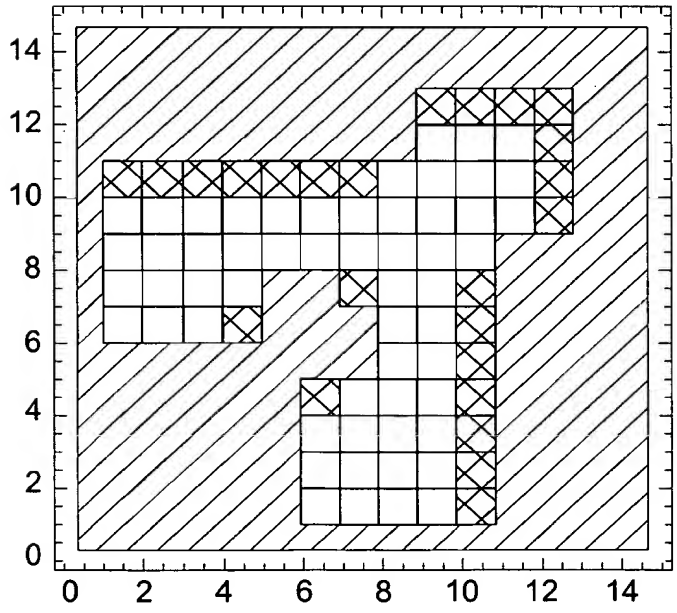

FIG. 3D

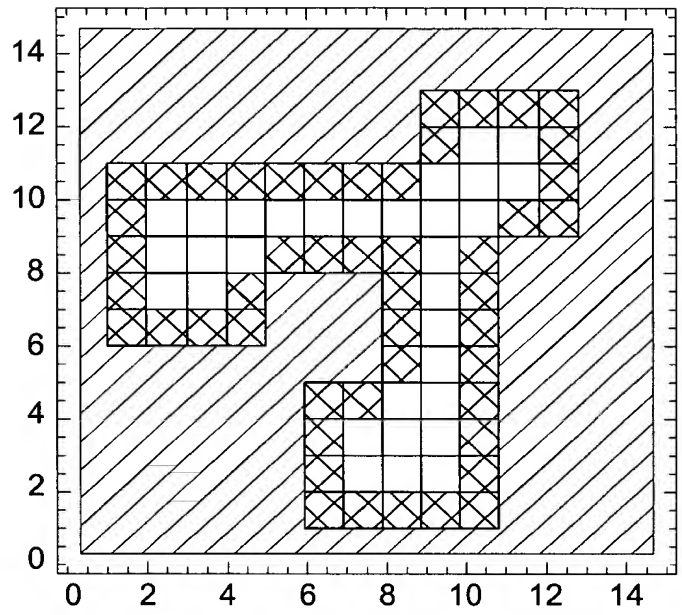

FIG. 4A

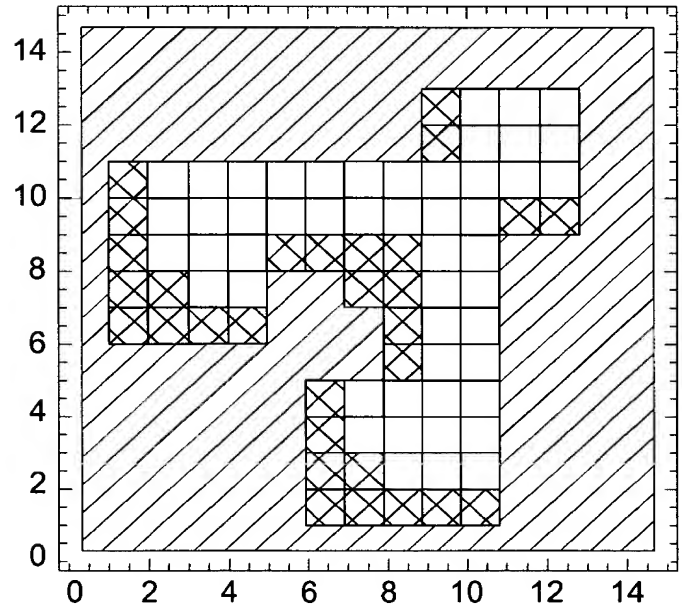

FIG. 4B

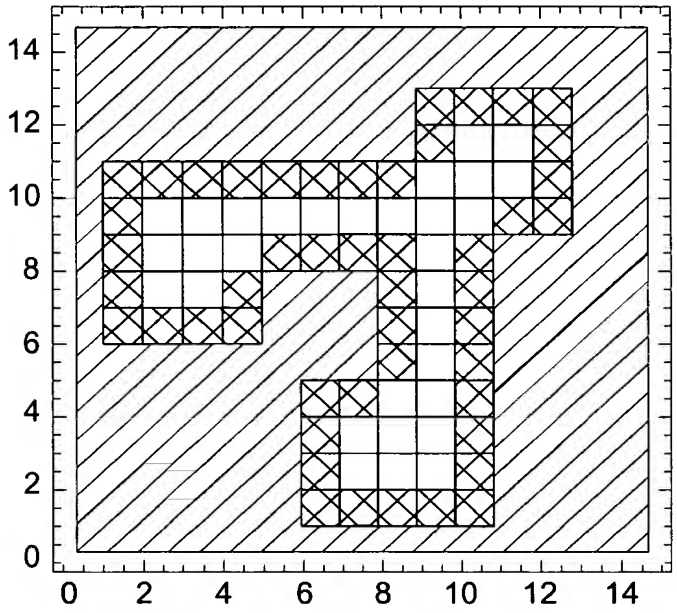

FIG. 4C

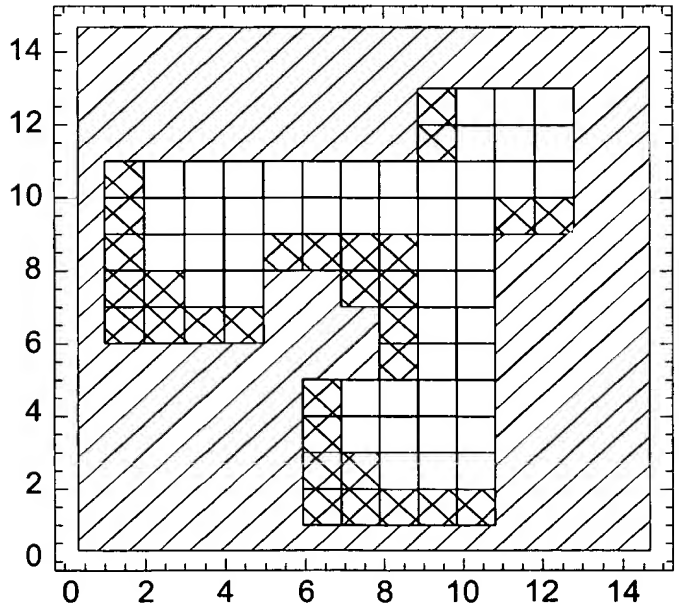

FIG. 4D

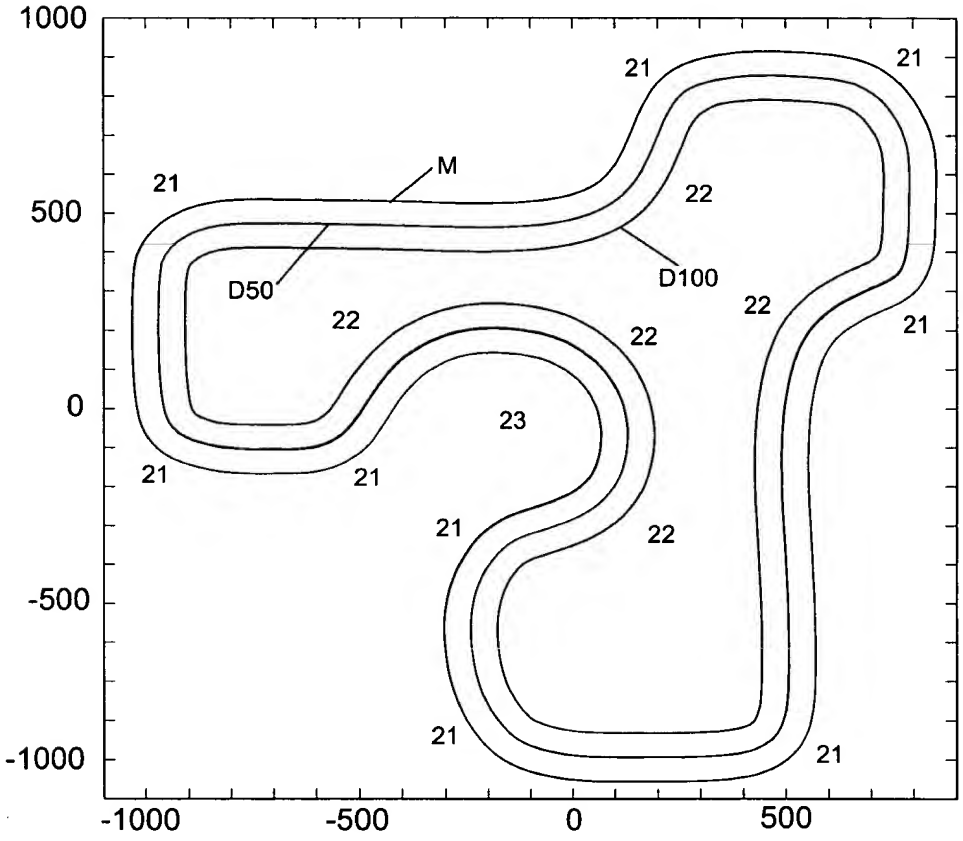

FIG. 5

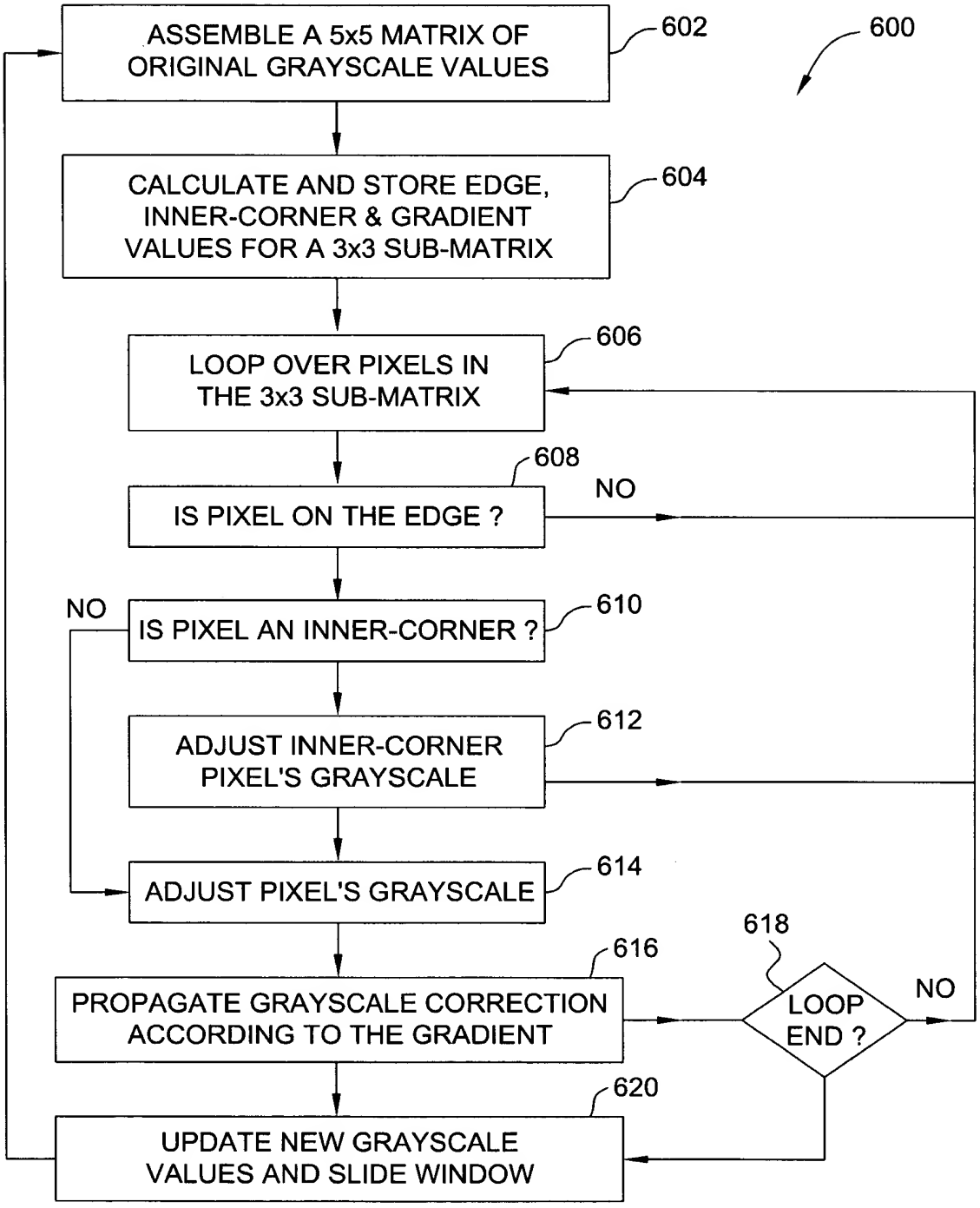
600
ASSEMBLE A 5x5 MATRIX OF ORIGINAL GRAYSCALE VALUES
602
CALCULATE AND STORE EDGE, INNER-CORNER & GRADIENT VALUES FOR A 3x3 SUB-MATRIX
604
LOOP OVER PIXELS IN THE 3x3 SUB-MATRIX
606
IS PIXEL ON THE EDGE ?
608
NO
NO
IS PIXEL AN INNER-CORNER ?
610
ADJUST INNER-CORNER PIXEL'S GRAYSCALE
612
ADJUST PIXEL'S GRAYSCALE
614
PROPAGATE GRAYSCALE CORRECTION ACCORDING TO THE GRADIENT
616
LOOP END ?
618
NO
UPDATE NEW GRAYSCALE VALUES AND SLIDE WINDOW
620

FIG. 6

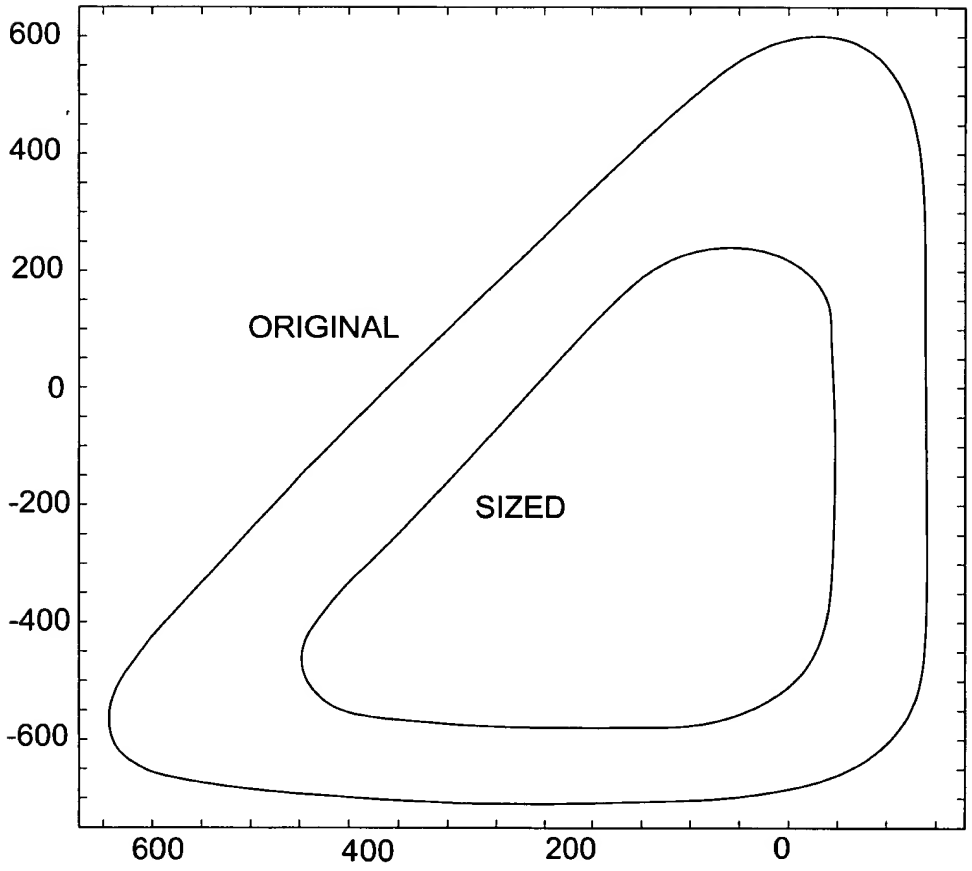

FIG. 7A

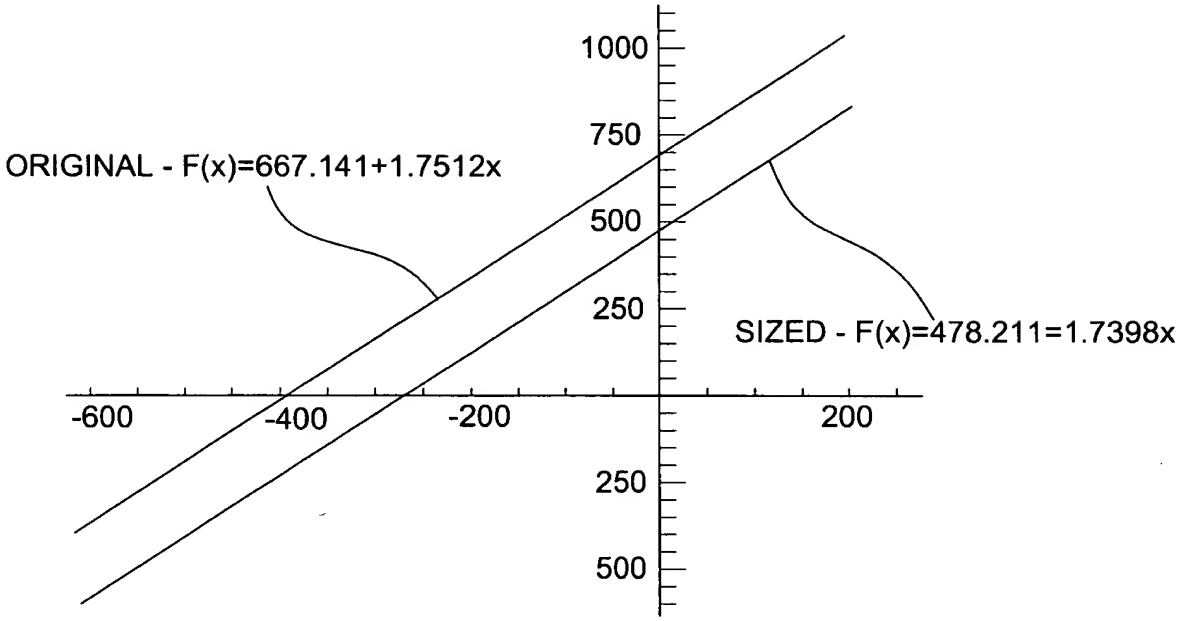
ORIGINAL - F(x)=667.141+1.7512x
SIZED - F(x)=478.211=1.7398x
1000
750
500
250
250
500
-600
-400
-200
200

FIG. 7B

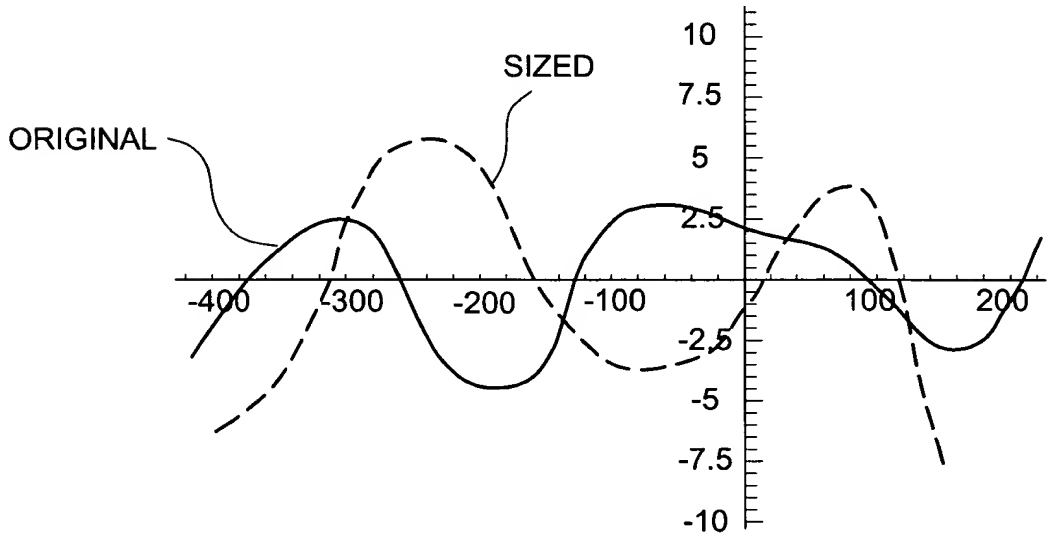
ORIGINAL
SIZED
10
7.5
5
2.5
-2.5
-5
-7.5
-10
-400
-300
-200
-100
100
200

FIG. 7C